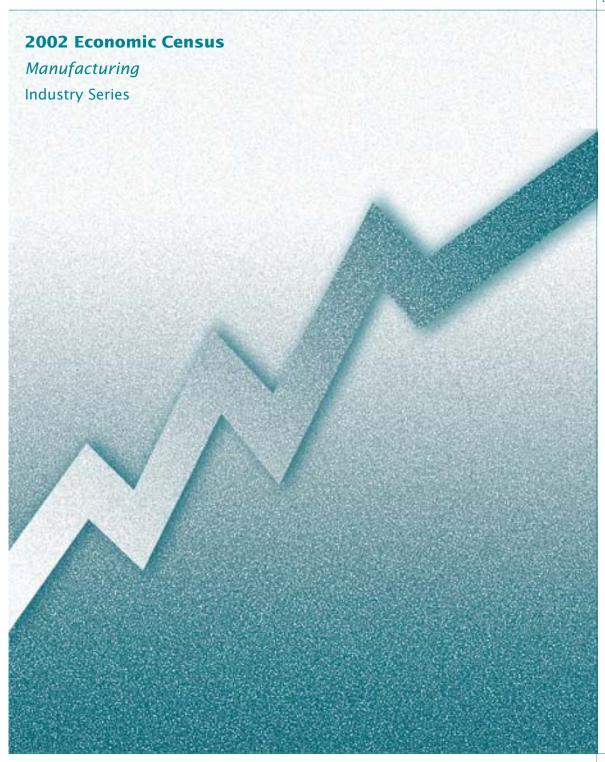
Ethyl Alcohol Manufacturing: 2002

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Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All			Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	shipments	expendi- tures (\$1,000)
325193, Ethyl alcohol manufacturing 2002	61 N N N N	69 N N N N 36	2 181 1 679 1 649 1 720 1 542 1 503	94 346 69 525 67 082 64 950 60 133 58 421	1 592 1 198 1 178 1 263 1 093 1 037	3 788 2 765 2 588 2 799 2 235 2 288	62 241 44 423 41 321 41 009 34 648 38 109	592 756 471 554 463 677 264 434 336 198 226 520	1 475 038 1 342 287 1 201 935 1 073 596 860 304 994 308	2 054 771 1 802 381 1 665 503 1 338 127 1 218 484 1 222 166	7123 191 68 238 57 436 70 099 81 006 36 694

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area		All establishments ²		All employees		Production workers						
		Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	tures
325193, Ethyl alcohol manufacturing												
United States	2	69 8 8 7	30 8 4 2	2 181 247 217 148	94 346 11 126 9 083 5 375	1 592 180 175 101	3 788 406 416 225	62 241 7 601 6 871 3 401	592 756 101 642 90 914 33 378	1 475 038 153 439 170 442 100 716	2 054 771 254 883 258 743 134 137	r123 191 r31 898 r7 888 r4 874

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (Lutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
325193, Ethyl alcohol manufacturing	
Companies ¹ number	61
All establishments ² number. Establishments with 1 to 19 employeesnumber. Establishments with 20 to 99 employeesnumber. Establishments with 100 employees or morenumber.	69 39 24 6
All employees3 number. Total compensation \$1,000. Annual payroll \$1,000. Total fringe benefits \$1,000.	2 181 122 203 94 346 27 857
Production workers, average for year	1 592 1 585 1 606 1 584 1 578
Production worker hours	3 788 62 241
Total cost of materials \$1,000 Materials, parts, containers, packaging, etc., used \$1,000 Resales \$1,000 Purchased fuels \$1,000 Purchased electricity \$1,000 Contract work \$1,000	1 475 038 1 055 231 D D 27 148 13 798
Quantity of electricity purchased for heat and power	694 445 317 254
Total value of shipments \$1,000. Primary products value of shipments \$1,000. Secondary products value of shipments \$1,000. Total miscellaneous receipts \$1,000. Value of resales \$1,000. Contract receipts \$1,000. Other miscellaneous receipts \$1,000.	2 054 771 1 436 916 D D D 4 340
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	D 2 788 007 1 436 916 1 351 091
Coverage ratiopercent	52
Value added\$1,000	592 756
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	114 601 52 323 5 768 56 510
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	134 931 63 764 7 350 63 817
Gross value of depreciable assets (acquisition costs) at beginning of year	'2 558 205 '123 191 '50 091 '73 100 '5 347 '4 898 '62 855 '23 847 '2 657 549
Depreciation charges during year\$1,000.	¹ 162 654
Total rental payments \$1,000 Buildings and other structures \$1,000 Machinery and equipment \$1,000	21 890 11 705 10 185
Total other expenses ⁴ . \$1,000. Response coverage ratio ⁵ . percent. Repair and maintenance services of buildings and/or machinery ⁴ . \$1,000. Communications services ⁴ . \$1,000. Legal services ⁴ . \$1,000. Accounting, auditing, and bookkeeping services ⁴ . \$1,000. Advertising and promotional services ⁴ . \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ . \$1,000. Refuse removal (including hazardous waste) services ⁴ . \$1,000. Management consulting and administrative services ⁴ . \$1,000. Taxes and license fees ³ . \$1,000. All other expenses ⁴ . \$1,000.	177 598 68 21 613 820 1 152 431 89 680 3 632 395 2 337 146 450

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All employees		Р	roduction worke	ers		Tatal	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
325193, Ethyl alcohol manufacturing											
All establishments Establishments with — 1 to 4 employees. 5 to 9 employees. 10 to 19 employees 20 to 49 employees 100 to 29 employees 50 to 99 employees 50 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees 0,000 to 2,499 employees	9 7 7 1 - - -	69 19 7 13 19 5 1 - -	2 181 40 56 200 619 e 697 e - -	94 346 1 484 2 406 8 478 25 072 D 33 727 D - -	1 592 25 37 147 454 D 493 D - -	3 788 44 777 336 1 078 D 1 252 D	62 241 851 1 483 5 638 16 954 D 22 298 D -	592 756 7 301 12 393 36 387 158 837 D 137 509 D	1 475 038 21 980 43 004 110 481 350 571 D 527 187 D	2 054 771 29 479 54 174 147 411 510 033 D 660 267 D	'123 191 '948 '1 386 '6 427 '67 317 D 25 785 D - -
Administrative records ⁴	9	27	168	7 501	111	230	4 584	44 252	129 288	173 101	r5 826

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	A.II	All em	ployees	Pr	oduction work	ers		Total	Total	Total
Industry or product class code		All estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	capital expendi- tures (\$1,000)
325193	Ethyl alcohol manufacturing	69	2 181	94 346	1 592	3 788	62 241	592 756	1 475 038	2 054 771	^r 123 191
3251930	Ethyl alcohol	69	2 181	94 346	1 592	3 788	62 241	592 756	1 475 038	2 054 771	r123 191

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
325193	Ethyl alcohol manufacturing	N N	X	×	2 788 007 2 266 624	
3251930	Ethyl alcohol	N N	X	X X	2 788 007 2 266 624	
32519301	Fuel ethanol (fuel-grade ethyl alcohol), ethyl alcohol, manufactured by the wet mill process	N N	X	X	1 354 543 1 077 492	
3251930111	Fuel ethanol (fuel-grade ethyl alcohol), ethyl alcohol, manufactured by the wet mill process	19 10	X	X	1 354 543 1 077 492	
32519302	Pure and other denatured (special or complete), ethyl alcohol, manufactured by the wet mill process	N N	X	X	182 321 233 408	
3251930211	Pure (natural) (proof gal basis) ethyl alcohol, manufactured by the wet mill process	5 7	X	X	90 598 146 931	
3251930221	Other denatured (special or complete) ethyl alcohol, including natural and synthetic, for uses other than rubbing, manufactured by the wet mill process	6 5	X	X	91 723 86 477	
32519303	Fuel ethanol, ethyl alcohol, manufactured by other processes (dry mill-distillation)	N N	X	×	810 469 468 086	
3251930311	Fuel ethanol, ethyl alcohol, manufactured by other processes (dry mill-distillation)	20	X	X	810 469 468 086	
32519304	Pure (natural) ethyl alcohol, manufactured by other processes (dry mill-distillation) (proof gal basis). 2002. 1997.	N N	X	X	209 637 215 861	
3251930411	Pure (natural) ethyl alcohol, manufactured by other processes (dry mill-distillation) (proof gal basis)	10	X	X	209 637 215 861	
32519305	Other denatured (special or complete) ethyl alcohol, including natural and synthetic, for uses other than rubbing, manufactured by other processes (dry mill-distillation)	N N	X	X	206 020 240 936	
3251930511	Other denatured (special or complete) ethyl alcohol, including natural and synthetic, for uses other than rubbing, manufactured by other processes (dry milldistillation)				206 020	
3251930Y	015th 1997	16 8 N N	X X X	X X X	206 020 240 936 25 017 30 841	
3251930YWW	Ethyl alcohol, nsk, for nonadministrative-record establishments	N N	×	×	1 144 3 398	
3251930YWY	Ethyl alcohol, nsk, for administrative-record establishments	N N N	X	X	23 873 27 443	

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
325193	Ethyl alcohol manufacturing		
00900001	Total materials	X	1 055 231
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃)		825 651 1 339
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH)		970 19 907 5 254
32500071	All other industrial inorganic chemicals	X	28 269
32519300	1997 Ethyl alcohol, pure and denatured	ŝ	25 578
21111013	Natural gas used as a raw material	27.9 P3.1	D 36 479 4 647
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.)	X	579 094
33300015	Parts and attachments for machinery and equipment	X	510 476 16 196
00970099	All other materials and components, parts, containers, and supplies	X	6 790 308 999
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	136 270 39 370 21 040

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.